

WHAT IS CLAIMED IS:

1. An improved single magnetic circuit dual output speaker structure, comprising:
a support retainer, further comprising an expanded opening at its front end, a bridge
disposed above said expanded opening, a magnetic circuit wound and fixed inwardly
5 in the middle of the bridge, a vibrating space disposed on each of both sides of said
magnetic circuit;
a first voice coil, disposed in said vibrating space on one side of said magnetic
circuit;
a second voice coil, disposed in said vibrating space on the other side of said
10 magnetic circuit;
a first diaphragm, disposed on said expanded opening of said support retainer and
having its internal diameter stuck with said first voice coil;
a second diaphragm, disposed on said expanded opening of said support retainer and
having its internal diameter stuck with said second voice coil; and
15 a damper, disposed at the back of the support retainer and stuck with said first voice
coil, such that said magnetic circuit being mounted at the front of said support
retainer by said bridge to provide the dual outputs of high and low pitches by a
single body structure, and the bridge being used to facilitate the grip for its holding
during assembling and maintenance.
- 20 2. The improved single magnetic circuit dual output speaker structure of claim 1,
wherein said first and second voice coils are of different diameters and lengths, and
comprised of a ring-shaped meant disposed on both ends having a sleeve of different
sizes, and two caps being covered the ends of two holes.
- 25 3. The improved single magnetic circuit dual output speaker structure of claim 1,
wherein said first diaphragm is in the shape of a bowl and has an aperture at the
center of its bottom, and said second diaphragm is a circular plate having a
protruded ring to surround a circular protrusion at the center.
4. The improved single magnetic circuit dual output speaker structure of claim 1,
wherein said support retainer is a two-piece member having a circular cover at its

front end, and a trumpet-shaped base at its rear end, and a small circular cover is disposed in the middle of said bridge of said circular cover to pair with said magnetic circuit.